

**Marked-Up Copy**  
Serial No: **09/644,556**  
Amendment Filed on: **HEREWITH**

**IN THE CLAIMS**

Claims 3-10, 27 and 52. (Canceled)

--1. (Amended) A stabilized monomer composition, comprising:

at least one [ethylenically unsaturated monomer] (meth)acrylic acid amide selected from the group consisting of N,N-dimethylaminopropyl methacrylamide, N,N-dimethylaminoethyl methacrylamide and a mixture thereof;

N,N-diethylhydroxylamine; and

N-nitroso-N-phenylhydroxylamine or its salt;

wherein a weight ratio of N,N-diethylhydroxylamine to N-nitroso- N-phenylhydroxylamine or its salt is from 1:1 to 10:1.

11. (Amended) [The composition according to Claim 3,] A stabilized monomer composition, comprising:

at least one [ethylenically unsaturated monomer] maleic acid derivative selected from the group consisting of maleic anhydride, methylmaleic anhydride, maleimide, methylmaleimide and mixtures thereof;

N,N-diethylhydroxylamine; and

N-nitroso-N-phenylhydroxylamine or its salt;

wherein a weight ratio of N,N-diethylhydroxylamine to N-nitroso- N-

phenylhydroxylamine or its salt is from 1:1 to 10:1] wherein said maleic acid derivative is selected from the group consisting of maleic anhydride, methylmaleic anhydride, maleimide, methylmaleimide and mixtures thereof].

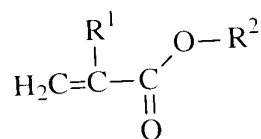
26. (Amended) A process for synthesis of a stabilized monomer composition, comprising:

mixing at least one ethylenically unsaturated monomer, N,N-diethylhydroxylamine and N-nitroso-N-phenylhydroxylamine or its salt; and

adding an inhibitor and/or antioxidant;

wherein a weight ratio of N,N-diethylhydroxylamine to N-nitroso-N-phenylhydroxylamine or its salt is from 1:1 to 10:1.

32. (Amended) The process according to Claim [26] 31, wherein said derivative of (meth)acrylic acid is represented by Formula (1):



wherein

R<sup>1</sup> is hydrogen or a methyl group;

R<sup>2</sup> is a hydrogen, an aryl group, an aryl group containing hetero atoms, a saturated or unsaturated straight-chain, branched or cyclic alkyl group with up to 30 carbon atoms, or a saturated or unsaturated straight-chain, branched or cyclic alkyl group with up to 30 carbon atoms and containing hetero atoms.

33. (Amended) The process according to Claim [26] 31, wherein said (meth)acrylic acid ester is a methyl (meth)acrylate, an ethyl (meth)acrylate, a propyl (meth)acrylate, an isopropyl (meth)acrylate, a n-butyl (meth)acrylate, an isobornyl (meth)acrylate, a

hydroxyalkyl (meth)acrylate, an aminoalkyl (meth)acrylate or mixtures thereof.

34. (Amended) The process according to Claim [26] 31, wherein said hydroxyalkyl (meth)acrylate is selected from the group consisting of 2-hydroxyethyl (meth)acrylate, 2-hydroxypropyl (meth)acrylate, 3-hydroxypropyl (meth)acrylate, 3,4-dihydroxybutyl (meth)acrylate and mixtures thereof.

35. (Amended) The process according to Claim [26] 31, wherein said (meth)acrylic acid amide is N,N-dimethylaminopropyl methacrylamide (DMAPMA), N,N-dimethylaminoethyl methacrylamide (DMAEMA) or a mixture thereof.

36. (Amended) The process according to Claim [26] 31, wherein said styrene substituted within an alkyl group in the side chain is  $\alpha$ -methylstyrene,  $\alpha$ -ethylstyrene or mixtures thereof.

37. (Amended) The process according to Claim [26] 31, wherein said styrene substituted with an alkyl group at the ring is vinyltoluene, p-methylstyrene or mixtures thereof.

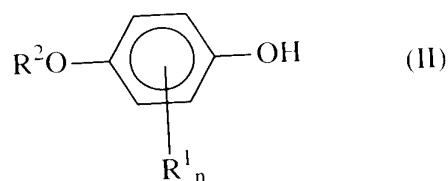
38. (Amended) The process according to Claim [26] 31, wherein said halogenated styrene is selected from the group consisting of monochlorostyrene, dichlorostyrene, tribromostyrene, tetrabromostyrene and mixtures thereof.

39. (Amended) The process according to Claim [26] 31, wherein said maleic acid derivative is selected from the group consisting of maleic anhydride, methylmaleic anhydride, maleimide, methylmaleimide and mixtures thereof.

40. (Amended) The process according to Claim 26, wherein said salt of N-nitroso-N-[phenylhydroxyamine] phenylhydroxylamine is an ammonium salt, an aluminum salt, a copper salt, a lithium salt, a sodium salt, a potassium salt, or a rubidium salt.

41. (Amended) The process according to Claim [27] 26, wherein said inhibitor is a

dihydroxybenzene of Formula (II):

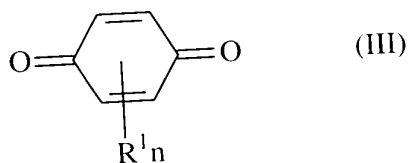


wherein  $R^1$  is a straight-chain or branched alkyl group with one to eight carbon atoms, halogen or aryl;

$n$  is an integer ranging from one to four; and

$R^2$  is hydrogen, a straight-chain or branched alkyl group with one to eight carbon atoms or aryl.

42. (Amended) The process according to Claim [27] 26, wherein said inhibitor is a 1,4 benzoquinone of Formula (III):

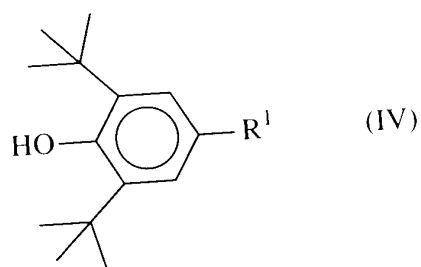


where

$R^1$  is a straight-chain or branched alkyl group with one to eight carbon atoms, halogen or aryl; and

$n$  is an integer ranging from one to four.

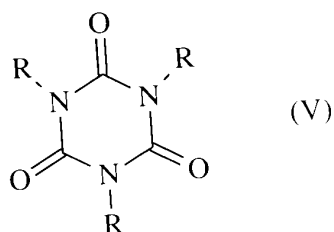
43. (Amended) The process according to Claim [27] 26, wherein said inhibitor is a phenol of Formula (IV):



wherein

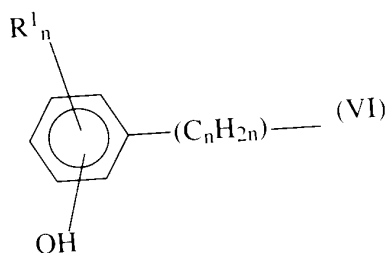
R¹ is a straight-chain or branched alkyl group with one to eight carbon atoms, aryl, aralkyl, a propionic acid ester group with a monohydric to tetrahydric alcohol optionally containing hetero atoms.

44. (Amended) The process according to Claim [27] 26, wherein said inhibitor is a triazine derivative of Formula (V):



wherein

R = compound of Formula (VI)

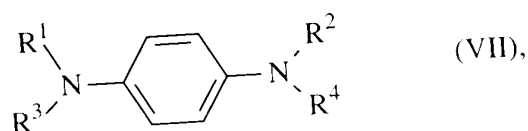


wherein

$R^1 = C_nH_{2n+1}$ ; and

$n = 1$  or  $2$ .

45. (Amended) The process according to Claim [27] 26, wherein said inhibitor is a phenylenediamine of Formula (VII):



wherein

$R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  independently are hydrogen or alkyl, aryl, alkaryl, aralkyl groups, each with up to 40 carbon atoms.

47. (Amended) The process according to Claim [27] 26, wherein said inhibitor is a phenazine dye selected from the group consisting of induline and nigrosine.

48. (Amended) The process according to Claim [27] 26, wherein said inhibitor has a concentration of 0.01 to 0.5% by weight based on the total weight of said composition.

51. (Amended) A process for synthesis of a 2-hydroxyalkyl (meth)acrylate, comprising:

reacting an oxirane compound with (meth)acrylic acid in the presence of a catalyst;

adding at least one inhibitor;

adding [an aqueous solution of N,N-diethylhydroxylamine and N-nitroso-N-phenylhydroxylamine or its salt] the stabilized monomer composition according to Claim 1.

thereby providing a mixture; and

distilling said mixture.

58. (Amended) A method of purifying a 2-hydroxyalkyl (meth)acrylate, comprising:  
adding at least one inhibitor to said 2-hydroxyalkyl (meth)acrylate;  
adding [an aqueous solution of N,N-diethylhydroxylamine and N-nitroso-N-phenylhydroxylamine or its salt] the stabilized monomer composition according to Claim 1.  
thereby providing a mixture; and  
distilling said mixture.--

Claims 62-67. (New)